



	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190	12
24655167.f	PTQPVPPYVNLPMQNQPPIHNTIK	DQHLLKPP	VVMG	ASSFGRR	ASDGGANLHYYP															
31217533.i	FVPPTPNVPINIPSLQNQPPIHNTIK	DQHLLKPP	TVMG	ATSSFCRR	ASDGGANLHYYP															
QSK.h	SICPPQQPAPLQAACECNPAALLTHQORPRICKPSSPPPNNPHPNHLFRQPSNSPPMMSAMIQPHGAASSSQFQQLPSRAAIFQQQPFENCSPPNVALTCLGMQQAQSQVTTIYQQEFPVDMLSNMPGTAAGSSGRGISISIPSAGQMOMHRINLMATLHSYGRPLSKQLSADSAEAIISLNVRSPANVYQAHHLHBLLES																			
20128911.f	SKANLGQSFRYKMSAEASKDFTQTLQESFPLVQRTKRRVHGSGTNGGGDSQETINDAKSNGDSRSEKKVLAQGSSSTDEGCTEDQGNPDSASQESKGSGNGGGSG	NANGGPTSHSSSDLTRLVGTTSQGSQSHMRSYASQSSSGVLAGSAGSYKSLSQNLRSRGSKSNCGSPYDITPDAL																		
1ia8_A																				
11067425.m	LKAFAQQLRKARNARTKGLGLINKKGKPARV	CQS-SIRGSRGGMSTFHT--PAPSS	GLQQC	TASSREGRSLLEEVHLHQQRLLQ--LQHHS--AVSSDYQQAPOLSEFVPPVVLTPCDG	LLVSGCPPLP															
6754746.m	LKAFAQQLRKARNARTKGLGLINKKGKPARV	CQS-SVTRPRGGMSTFHT--PAPSS	GLQQC	TTGNNREGRSLLEEVHLHQQRLLQ--LQHHSSTAASSGCQCGPQLSEFVPPVVLAPCDS	LLVSGCPPLP															
SIK.h	LKAFAQQLRKARNARTKGLGLINKKGKPARV	CQAFASRASRGGLSPFHA--FAQSP	GLHGG	AAGSREGWSLLEEVHLQQRLLQ--LQHHP--AAAGGCSQAFQPAFAFPVIAPCDGCAAPFLSTLLTGSQPLPFLP	LLVSGCPPLP															
38569497.m	IVAFQRLQNLARTKGLELINKVQVLYEEIGPEADINLAPAAPQLQDIASSCPQEEVSQQESVSTLPAVSHPQLSRQSLETQYLQHRLQKPSLSSKAQNTC	PVYCKEPPRSLEQQLQEHRLQOKRLFLQKQSLQYFNMQIAESSYGPSPQQLALHQETPLTSQQPPSFETQAL																		
QIK.h	IVAFQRLQNLARTKGLELINKVQVLYEEIGPEADINLAPAAPQLQDIASSCPQEEVSQQESVSTLPAVSHPQLSRQSLETQYLQHRLQKPSLSSKAQNTC	QLYCKEPPRSLEQQLQEHRLQOKRLFLQKQSLQYFNMQIAESSYGPSPQQLALHQETPLTSQQPPSFETQAL																		
34863371.m	LFGIVAFQRLQNLARTKGLELINKVQVLYEEIGPEADINLAPAAPQLQDIASSCPQEEISQRQESVSALSASMHQQLSPQRSLETQYLQHRLQKPSLSSKAQNTC	PMYCKEPPRSLEQQLQEHRLQOKRLFLQKQSLQYFNMQIAERSYFPGETQQLALHPPETATPQQPPSFETQAL																		
2phk_A																				
1kwp_A																				
1jkk_A																				

	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390	14
24655167.f	ATG-TVVGPAQGQMDTAGYYINF	-NCGTDPLAVQELSPINEQSVAQMQCCQENATGECEELQS YMQ		KRGGTQRHTVGC																
31217533.i	SSGPTSAALGPISG	-AVNN-STLMMDFVMMMLQTPNSEGTDDENDEIQRYMH	-GRGC1KRIHTVGC																	
QSK.h	DQSQRGSPSSPAGTGVCFSEDTQALKVPPLDQFFTFPPSAHQQPPHYTTSAQQLALSTTPP	DYTRHQQQVPHILQQLLSPRNLSLTGHSDIRLPPTEFAQLIKRQ--RQQQQQQQQQQQEQYELFRIMMNQGDAGSLAPSLLGGSMTERQALSY																		
20128911.f	PSGKGSPLSCMGSSSMLATTPASASAGISSEHSSERSLYGSNSCIHMPGALPFLGLPQSSASTPTNPTPPPNGGVTFLDKRSPHINFREGRRASDGLVAQGLLSSGSLLGTSRVYGSYRYEQAKRHGWLIEQQLQQLQEEAVGHSHPHANQPHQPHFQAYGLEELCQFPNGQFYALPGKHPLLTDPHHH																			
1ia8_A																				
11067425.m	TPLLQPCMSPVASAQQLDDAHLHISAGP	-VALP		TGPLQCLTRLSPSCDPAGLP																
6754746.m	TPLLQAGMSPVASAQQLDDAHLHISAGP	-VALP		TGPLQCLTRLSPSCDPAGLP																
SIK.h	TPLLQTGASPVASAQQLDDAHLHIGTCP	-TALP		AVPPR-LARLAPGCEPLGILL-																
38569497.m	SPVLEP-SSEQMFQSSFLSQYQPEMQLQ--LPSTPFGPQ	-APPPLPSLQHQHQQPPP		LPSTTSSVPN-YPASCHYVPDVGAQQSNTGADCPRSSLQDATTASYDPLAIS	EL															
QIK.h	SPVLEP-SSEQMFQSSFLSQYQEMQLQ--LPSTSGFR	-AAPPLPTQLQQQPPP		AVPPR-LARLAPGCEPLGILL-																
34863371.m	SPVLEP-SSEQMFQSSFLSQYQDMHYFASCHYFVDGAQQSNTGAECPRSSGLQEALSALPGLFDYEMVEAVDFQHNGYVLKEAQFLEETYQDLEARPGP	-MGKALTTLTVTFVSEGCSYQIGFESFFLSSSYQFPNDGVTECLRTLTPFKMSHQADGMGYSRAMYLSWGINQLPTRTELSPSAGLDPRRGQM		YPTPCQYVPDVGAQQSNTGADCPRSSLQDATTASYDPLAIS	EL															
2phk_A																				
1kwp_A																				
1jkk_A																				

	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590	16
24655167.f	TEDLSVAHSGC	AGS-QSQAPTTSSN	MRQRRTG-LLTIVTERPPGALERLTKIL																	
31217533.i	TDDLSAGNASP	-MEPPQAHSPAPSAGGTSG	TAAGGGGRTTRTG-LLTIVMERPPG																	
QSK.h	QNADHHTSPQHLLQIRQECVSCQASSPTPPHGAQOPALMHESEMEEDCSCEGAKDGFQDSKSSSTLTKGCHDSPLLSTGGFQDIESLLGTVSAQELGIRPYQHQ-TAAFSKNKVPSRBPIVIGNCMDRSSPFIQQAVERLPDHNGLYPARPSVHEHHPRALQREHHTQNSDDAYVQLDNPGMSLVAGKALSSARM																			
20128911.f	AHPAQHHHHHHSLSFHSGHQATPLLEAAAGGDMYHGHCYATPPPPLGGYTHHQLGVGMAVFMSMFMQPKPLQQQLLQKRQLFQKQYALEAQLAGRHIIHHHQHSHHHHHIFGHSLGPFFFFPAPFEEHLADELYELALLDRFRSGTFLQHMSMTMPGAHAFSQMNLTYSIQSODGVPGAAANGAGSGGSAAAGVSC																			
1ia8_A																				
11067425.m	QGDCEMEDLTSGQR	-GTFVFLVQ																		
6754746.m	QGDCEMEDLTSGQR	-GTFVFLVQ																		
SIK.h	QGDCEMEDLMPCSL	-GTFVFLVQ																		
38569497.m	PGLFDCEMVEAVDP	QHNGVVSCLARET																		
QIK.h	PGLFDCEMELDAVP	QHNGYVVLN																		
34863371.m	PGDTDQETLGAQKLGSRNRENNSXPATGKVDS																			
2phk_A																				
1kwp_A																				
1jkk_A																				

	1610	1620	1630	1640	1650	1660	1670
24655167.f	.....	.....	.....	.....	.....	.....	.....
31217533.i	SDAVLSQSLSLMGSQQFQDGENEECGASLGGHEHPDLSDGSQHLNNSCYPSTCITDILLSYKHPFVFSMSMQAGV						
QSK.h	SAPPSTAPGPTTVKCKFTPHGHSLSDYHTSTPVLSLFTENWQSLVKPLSESFILETSEHLESV						
20128911.f							
1ia8_A							
11067425.m							
6754746.m							
SIK.h							
38569497.m							
QIK.h							
34863371.m							
2phk_A							
1kwp_A							
1jkk_A							